

QUESTION BANK

Course: B.E Marine Engineering

SEMESTER: VIII

Subject Title: Ship construction & stability

SUBJECT CODE: ME 801

And environment protection

SECTION A

- 1. Define the terms length overall and breadth extreme?**
- 2. What is duct keel?**
- 3. List the fires or explosions that may be caused accidentally in marine running machinery?**
- 4. What is air pollution?**
- 5. Expand SOPEP?**
- 6. What is bilge keel?**
- 7. What does propeller drop indicate?**
- 8. What does rudder drop indicate?**
- 9. What is ICCP?**
- 10. What are the four classes of fire?**
- 11. What is a memory card in an OWS?**
- 12. What do you mean shore reception facility?**
- 13. What are the types of fire detection used onboard?**
- 14. What is fire plan?**
- 15. What is pintle bearing?**
- 16. What is chain locker?**
- 17. What is bitter end of an anchor cable?**
- 18. What is the weight of an anchor?**
- 19. How the length of the anchor cable is measured?**
- 20. What is a camber?**

21. How many anchors are fitted to a ship?
22. What is a painter on a life boat?
23. Where scupper is provided?
24. What is an isolating valve?
25. What should be the minimum capacity of an emergency fire pump?
26. What is plimsoll line?
27. Why dip tubes are fitted to CO₂ and DCP extinguisher?
28. What is the weight of CO₂ cylinder when full?
29. What is the pressure inside the CO₂ cylinder when full?
30. What is a foam monitor?
31. What is high expansion foam and what is the ratio?
32. What is the principle of extinguishing a fire?
33. What is SCBA?
34. What is a dual nozzle?
35. What is EEBD?
36. What is an enclosed space entry permit?
37. What is hot work permit?
38. What is an electrical work permit?
39. What is meta centric height?
40. What is the use of an inclining experiment?
41. What is fresh water allowance?
42. What is TPC?
43. What is a sacrificial anode?
44. What is MGPS?
45. How many sea suction are provide for a ship?
46. When and where are the particular sea suction are used?

- 47.what is warping?
- 48.what is double hull?
- 49.what do you mean by a freefall life boat?
- 50.what is a sheet anchor?

SECTION B

- 1.Explain cruiser and transom stern with sketch?
- 2.Explain about the types of ventilation systems onboard ships?
- 3.Sketch and describe the international shore connection available on all ships?
- 4.Sketch and describe a portable fire extinguisher used today,including its operation,performance?
- 5.Discuss the characteristics of combination detectors?
- 6.what is a 15ppm monitor?
- 7.Explain briefly when and where engine room bilge can be discharged?
- 8.what is a fire plan and where it is placed?
- 9.How an inclining experiment is carried out?
- 10.what are the safeties in SCBA?
- 11.How the leak test is done in a SCBA?
- 12.Explain what is a fire control station?
- 13.Explain bunker plan?
- 14.Draw plimsoll line and mark?
- 15.What is the weak link in life raft?
- 16.What is the oil record book and normally on a cargo ship what entries are made?What are the emergency drills carried out onboard?
- 17.What are the different annexes ?
- 18.what are the critical areas?

SECTION C

- 1.with a suitable sketch explain the arrangements to resist panting?**
- 2.Sketch and explain the construction features of fabricated stern frame with unbalanced rudder?**
- 3.Draw and describe a combined smoke detection system and CO₂ Total flooding system for a cargo hold spaces for general cargo and bulk cargo ships?**
- 4.Explain with sketch,the fixed high expansion foam system used for the engine rooms and boiler rooms of ultra large carriers(ULCC).State the rules governing high expansion foam?**
- 5.what is hyper mist?How does it extinguish a fire?Describe the layout of a hyper mist system onboard . Discuss the advantages of this system?**
- 6.Describe the simple block diagram,the fixed dry powder extinguishing system used on tanker ships carrying LPG,LNG and other liquefied gases.State the present rules applicable to this system?**
- 7.List out SOPEP equipments and explain the uses of same?**
- 8.sketch and describe 15ppm oily water separator/**
- 9.What is an oil record book? Normallywhat are the entries made in it?**
- 10. I)what is an international shore connection for sludge discharge?**
ii)How may slop tank and waste oil tank be emptied?
- 11.Sketch and mention the balanced rudder?**
- 12.Draw and explain oil cooled stern tube construction?**
- 13.Sketch and explain the sprinkler system?**
- 14.Draw and explain any one of the fire detectors fitted in the engine room(smoke,heat,flame)?**
- 15.Draw and explain portable CO₂ FIRE EXTINGUISHER?**
- 16.Draw and explain the portable dry chemical(DCP) fire extinguisher?**
- 17.Describe the various classes of fire and their extinguishing medium?**
- 18what is the systematic procedure to be followed for re-entry to engine room after extinguishing the fire?**

19.i)what is crew muster station?

ii)explain in detail any of the emergency drill carried out onboard at sea?

20.what is Ballast water management system(BWMS) and explain any two methods?